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1-16. (Canceled)

17. (Previously presented) A method for stimulating angiogenesis in a subject who has a muscle injury, comprising the step of:

injecting into muscle tissue of the injured muscle of the subject an isolated nucleic acid expression construct that is substantially free from a viral backbone; and

electroporating the muscle tissue of the injured muscle after the nucleic acid expression construct has been delivered into the muscle tissue of the injured muscle of the subject; wherein the muscle tissue comprises cells; and

the isolated nucleic acid expression construct comprises:

- a synthetic myogenic promoter;
- a nucleic acid sequence encoding an insulin-like growth factor I ("IGF-I"); and
- a 3' untranslated region (3'UTR);

wherein the synthetic myogenic promoter, the nucleic acid sequence encoding IGF-I, and the 3'UTR are operably linked; whereby cells of the muscle tissue of the injured muscle of the subject take up the isolated nucleic acid expression construct and IGF-I is expressed, and angiogenesis is stimulated in the muscle tissue of the injured muscle of the subject.

18. - 20. (Canceled)

- 21. (Previously presented) The method of claim 17, wherein the 3'UTR comprises a nucleic acid sequence that is a skeletal alpha actin gene or a human growth hormone gene, and retains 3'UTR activity.
- 22. (Previously Presented) The method of claim 17, further comprising: mixing the isolated nucleic acid expression construct with a transfection-facilitating system before delivering the isolated nucleic acid expression construct into the muscle tissue of the injured muscle of the subject.

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23. (Previously Presented) The method of claim 22, wherein the transfection-facilitating system is a liposome, or a cationic lipid.

- 24. (Previously Presented) The method of claim 17, wherein the isolated nucleic acid expression construct comprises a nucleic acid sequence encoding an amino acid sequence of SEO ID NO:4 and retains the function of inducing angiogenesis in muscle tissue.
- 25. (Canceled).
- 26. (Previously Presented) The method of claim 17, wherein the isolated nucleic acid expression construct comprises Seq. ID NO. 1.
- 27. (Canceled)
- 28. (Previously Presented) The method of claim 17, further comprising mixing the isolated nucleic acid expression construct with an effective concentration of a transfection polypeptide before delivering the isolated nucleic acid expression construct into muscle tissue of the injured muscle of the subject, wherein the transfection-facilitating polypeptide comprises a charged polypeptide.
- 29. (Previously Presented) The method of claim 28, wherein the transfection-facilitating polypeptide comprises poly-L-glutamate.
- 30. (Canceled).
- 31. (Original) The method of claim 17, wherein the nucleic acid expression construct is delivered into the tissue of the subject via a single administration.
- 32. (Canceled).

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33. (Original) The method of claim 17, wherein the cells of the tissue are diploid cells.

- 34. 37. (Canceled).
- 38. (Original) The method of claim 17, wherein the subject is a human, a pet animal, a farm animal, a food animal, or a work animal.
- 39. 40. (Canceled).
- 41. (Previously presented) The method of claim 17, wherein the synthetic myogenic promoter comprises SEQ ID No.: 3.
- 42. (Previously presented) The method of claim 17, wherein the 3'UTR comprises SEQ ID No.: 5 or SEQ ID No.: 6.
- 43-44. (Canceled)